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Attorney Docket No. 50325-0826

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Jagannathan Shiva Shankar, et al.

Serial No.: 10/753,274

Filed on: January 7, 2004

) Confirmation No.: 6604  
)  
) Examiner: NYA  
)  
) Group Art Unit No.: 2142  
)

For: METHOD AND APPARATUS FOR DETERMINING THE SOURCE OF USER-PERCEIVED VOICE  
QUALITY DEGRADATION IN A NETWORK TELEPHONY ENVIRONMENT

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

Enclosed is a copy of Information Disclosure Citation Form PTO-1449 together with copies of the documents cited on that form, if needed. It is respectfully requested that the cited documents be considered and that the enclosed Information Disclosure Citation Form PTO-1449 be initialed by the Examiner to indicate such consideration and a copy thereof returned to applicant(s).

Pursuant to 37 C.F.R. § 1.97, the submission of this Information Disclosure Statement is not to be construed as a representation that a search has been made and is not to be construed as an admission that the information cited in this statement is material to patentability.

Pursuant to 37 C.F.R. § 1.97, this Information Disclosure Statement is being submitted under one of the following (as indicated by an "X" to the left of the appropriate paragraph):

- X   37 C.F.R. §1.97(b).  
       37 C.F.R. §1.97(c). If so, then this Information Disclosure Statement includes one of the following:  
       A statement pursuant to 37 C.F.R. §1.97(e)

\_\_\_\_ 1.97(e)(1) The undersigned hereby states that each item of information contained in this information disclosure statement was first cited in communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this information disclosure statement.

\_\_\_\_ 1.97(e)(2) The undersigned hereby states that no item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in this information disclosure statement was known to any individual designated in §1.56(c) more than three months prior to the filing of this information disclosure statement.

\_\_\_\_ A check for \$180.00 for the fee under 37 C.F.R. § 1.17(p).

\_\_\_\_ 37 C.F.R. §1.97(d). If so, then this Information Disclosure Statement includes the following:

\_\_\_\_ A statement pursuant to 37 C.F.R. §1.97(e)

\_\_\_\_ 1.97(e)(1) The undersigned hereby states that each item of information contained in this information disclosure statement was first cited in communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this information disclosure statement; OR

\_\_\_\_ 1.97(e)(2) The undersigned hereby states that no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in §1.56(c) more than three months prior to the filing of this information disclosure statement.

AND

\_\_\_\_ A check for \$180.00 for the fee under 37 C.F.R. §1.17(i) for submission of the Information Disclosure Statement.

\_\_\_\_ 37 C.F.R. §1.97(i). Wherein applicants are submitting references before the grant of a patent to be placed in the file but not considered by the Patent office.

- (1) Accordingly, copies of the references as listed on the attached Form PTO 1449 are submitted herewith for placement in the file. No certification or fees are deemed necessary.

The Examiner's attention is directed to the following related application(s) for the following reasons (as indicated by an "X" to the left of the appropriate paragraph):

\_\_\_\_\_ The Examiner is hereby notified that the following related application has been filed:

| U.S. Application/ Pat. No. | File Date | Atty. Docket. No. |
|----------------------------|-----------|-------------------|
|                            |           |                   |

This related application contains one or more claims that may be substantially similar to one or more claims in the present application. Therefore, the Examiner is encouraged to reference the file history of the related application as some of the information contained therein may be material to the examination of the present application.

  X   The Examiner is hereby notified that the present application is related to the following related application(s):

| U.S. Application/ Pat. No. | File Date | Atty. Docket. No. |
|----------------------------|-----------|-------------------|
| 10/864,050                 | 6/8/2004  | N/A               |
| 10/797,689                 | 3/9/2004  | N/A               |
|                            |           |                   |
|                            |           |                   |
|                            |           |                   |

The related application(s) contain(s) one or more claims that may be substantially similar to one or more claims in the present application, those claims may have been rejected in the related application(s), and a different interpretation may have been applied to one or more of the references that are of record in the present application. Therefore, the Examiner is encouraged to review the file history(ies) of the related application(s) as some of the information contained therein may be material to the examination of the present application.

\_\_\_\_\_ The Examiner is hereby notified that for the following related application(s) an Office Action has been received as indicated below:

| U.S. Application/<br>Pat. No. | File Date | Office Action<br>Mailing Date | Atty. Docket. No. |
|-------------------------------|-----------|-------------------------------|-------------------|
|                               |           |                               |                   |
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|                               |           |                               |                   |

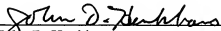
The related application(s) contain(s) one or more claims that may be substantially similar to one or more claims in the present application, those claims may have been rejected in the related application(s), and a different interpretation may have been applied to one or more of the references that are of record in the present application. Therefore, the Examiner is encouraged to review the file history(ies) of the related application(s) as some of the information contained therein may be material to the examination of the present application.

Throughout the pendency of this application, please charge any additional fees, including any required extension of time fees, and credit all overpayments to deposit account 50-1302. A duplicate of this sheet is enclosed.

Respectfully submitted,

HICKMAN PALERMO TRUONG & BECKER LLP

Dated: November 10, 2004

  
 John D. Henkhaus  
 Reg. No. 42,656

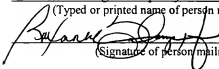
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# INFORMATION DISCLOSURE CITATION IN AN APPLICATION

(PTO-1449)



ATTY. DOCKET NO.

50325-0826

SERIAL NO.

10/753,274

APPLICANT:

Jagannathan Shiva Shankar, et al

FILING DATE:

January 7, 2004

GROUP:

2142

## U.S. PATENT DOCUMENTS

| Exam. Initial* | Cite No. <sup>1</sup> | U.S. Patent Document |                                      | Name of Patentee or Applicant of Cited Document | Date of Publication of Cited Document<br>MM-DD-YYYY | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|----------------|-----------------------|----------------------|--------------------------------------|---|---|---|
|                |                       | Number               | Kind Code <sup>2</sup><br>(If known) |   |   |   |
|                |                       |                      |                                      |   |   |   |

## OTHER ART - NO PATENT LITERATURE DOCUMENTS

| Examiner Initials* | Cite No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published   | Translation <sup>2</sup> |
|--------------------|-----------------------|--|--------------------------|
| /J.K./             |                       | ANTONY W. RIX, et al., "Perceptual Evaluation of Speech Quality (PESQ) The New ITU Standard for End-to-End Speech Quality Assessment Part I - Time-Delay Compensation" Psytechnics Limited (formerly part of BT Laboratories), Ipswich IP1 1HN UK, Royal PTT Nederland NV, NL-2260 AK Leidschendam, The Netherlands, October 2002, pp.755-764.   |                          |
| /J.K./             |                       | JOHN G. BEERENDS, et al., "Perceptual Evaluation of Speech Quality (PESQ) The New ITU Standard for End-to-End Speech Quality Assessment Part II - Psychoacoustic Model", Royal PTT Nederland NV, NL-2260 AK Leidschendam, The Netherlands, Psytechnics Limited (formerly part of BT Laboratories), Ipswich IP1 1HN UK, October 2002, pp.765-778. |                          |
| /J.K./             |                       | ANTONY W. RIX, et al. "PESQ - The New Standard for End-to-End Speech Quality Assessment", BT Advanced Communications Research, B54/86 Adastral Park, Ipswich IP5 3RE, UK, Royal PTT Nederland NV, NL-2260 Leidschendam, The Netherlands, September 2002, pp. 1-18.   |                          |
| /J.K./             |                       | ANTONY W. RIX, et al. "The Perceptual Analysis Measurement System for Robust End-to-End Speech Quality Assessment", BT Advanced Communications Research, MLB 3/7 pp3, Adastral Park, Ipswich IP5 3RE, UK, June 2000, pp.1-4.   |                          |

Examiner

Signature

/Jamal King/

Date Considered

06/25/2008

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard S.3). <sup>4</sup>For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

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